

## Product Datasheet

### PPP3CA Antibody / Calcineurin (orb639860)

<b>Catalog Number</b>	orb639860
<b>Category</b>	Antibodies
<b>Description</b>	<p>Calcineurin is an enzyme that dephosphorylates serine and threonine residues in proteins. It is a heterodimer of a 59kDa catalytic A subunit and a 19kDa regulatory B subunit that is activated by the binding of calcium ions and calmodulin. Calcineurin is expressed in many tissues, but its levels are highest in the brain, where it may play a role in learning and memory. It has many substrates, including NFAT, a transcription factor that is activated by dephosphorylation. Complexes of the immuno-suppressants cyclosporine and FK506 with immunophilin proteins such as cyclophilin and FKBP12 are potent and specific inhibitors of Calcineurin activity. Alterations in Calcineurin activity are suspected to play a role in cardiac hypertrophy and graft versus host disease in organ transplantation.</p>
<b>Clonality</b>	Monoclonal
<b>Species/Host</b>	Mouse
<b>Isotype</b>	Mouse IgG1, kappa
<b>Conjugation</b>	Unconjugated
<b>Reactivity</b>	Human
<b>Purification</b>	Protein G affinity chromatography
<b>Immunogen</b>	A recombinant full-length Calcineurin A protein was used as the immunogen for the PPP3CA antibody.
<b>UniProt ID</b>	<b>Q08209</b>
<b>Tested applications</b>	WB

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<b>Dilution range</b>	Western blot: 1-2ug/ml
<b>Application notes</b>	Optimal dilution of the PPP3CA antibody should be determined by the researcher.
<b>Antibody Type</b>	Primary Antibody
<b>Clone Number</b>	BF1.1
<b>Formula</b>	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Note</b>	For research use only

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